

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1029352

Luminaire Tested: S122DIW-B290D1440UB2750-4F0-XX-W2A-F1_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029352
REPORT IS A COMBINATION OF REPORTS P985598 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B290D1440UB2750-4F0-XX-W2A-F1_3000K
Description: Define 2 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

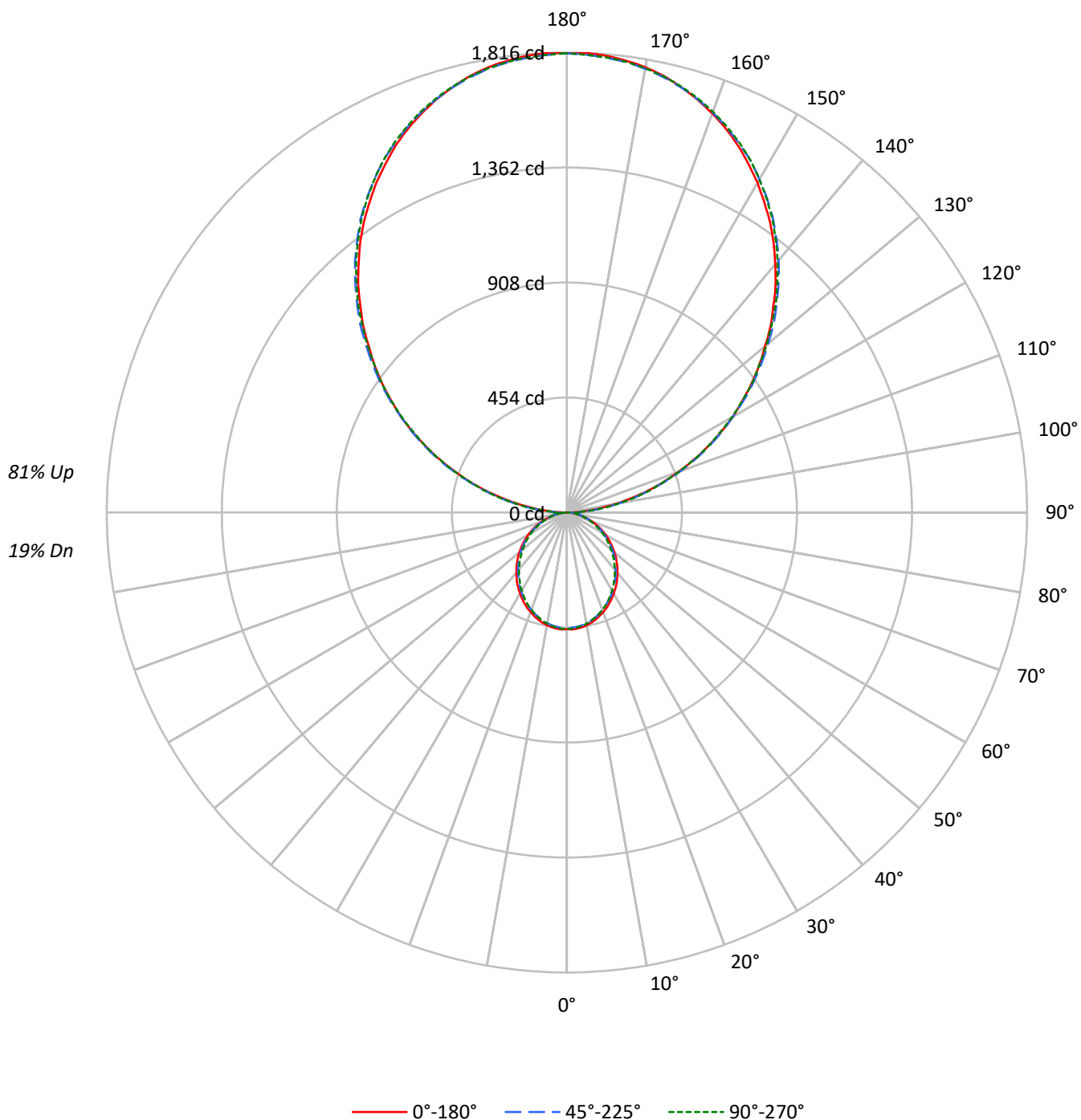
Lumens per Lamp: N/A
Luminaire Lumens: 6243.0 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 65.2
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1029352

CATALOG NUMBER: S122DIW-B290D1440UB2750-4F0-XX-W2A-F1_3000K

Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	100	100	100	100	88	88	88	88	66	66	66	46	46	46	27	27	27	19		
1	91	87	83	80	80	77	73	71	58	56	54	40	39	38	24	24	23	16		
2	83	76	70	65	73	67	62	58	50	47	44	35	33	32	21	20	19	13		
3	75	66	59	54	66	59	53	48	44	41	37	31	29	27	19	18	17	11		
4	69	59	51	45	60	52	46	41	39	35	32	28	25	23	17	15	14	10		
5	63	52	44	39	55	46	40	35	35	31	27	25	22	20	15	14	12	8		
6	58	46	39	33	51	41	35	30	31	27	23	22	19	17	14	12	11	7		
7	53	42	34	29	47	37	31	26	28	24	20	20	17	15	12	11	10	7		
8	49	38	30	25	43	34	27	23	26	21	18	18	15	13	11	10	9	6		
9	46	34	27	22	40	30	24	20	23	19	16	17	14	12	10	9	8	5		
10	43	31	24	20	38	28	22	18	21	17	14	15	13	11	10	8	7	5		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7280	7280	7280
5°	7292	6938	6890
10°	7232	6622	6491
15°	7127	6304	6072
20°	6983	5958	5675
25°	6840	5595	5278
30°	6661	5255	4863
35°	6491	4896	4455
40°	6282	4542	4069
45°	6074	4191	3690
50°	5847	3833	3296
55°	5609	3451	2925
60°	5341	3037	2537
65°	5044	2618	2132
70°	4673	2156	1721
75°	4156	1663	1328
80°	3529	1131	856
85°	2557	524	364

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6074 cd/sqm

TEST NUMBER: P1029352

CATALOG NUMBER: S122DIW-B290D1440UB2750-4F0-XX-W2A-F1_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.3	0.7
10°-20°	121.8	2.0
20°-30°	179.0	2.9
30°-40°	207.9	3.3
40°-50°	207.6	3.3
50°-60°	181.0	2.9
60°-70°	133.8	2.1
70°-80°	75.7	1.2
80°-90°	25.1	0.4
90°-100°	112.1	1.8
100°-110°	356.5	5.7
110°-120°	610.0	9.8
120°-130°	802.2	12.8
130°-140°	900.4	14.4
140°-150°	883.0	14.1
150°-160°	740.7	11.9
160°-170°	491.2	7.9
170°-180°	171.7	2.8
0°-30°	344.0	5.5
0°-40°	551.9	8.8
0°-60°	940.5	15.1
0°-90°	1175.2	18.8
90°-120°	1078.6	17.3
90°-150°	3664.2	58.7
90°-180°	5068.0	81.2
0°-180°	6243.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	460	460	460	460	460	
5°	460	458	453	457	456	44
15°	438	435	429	431	429	123
25°	396	393	385	386	385	182
35°	342	337	330	328	326	213
45°	278	275	268	264	262	215
55°	210	208	202	197	195	188
65°	142	139	135	131	129	140
75°	74	73	71	68	69	79
85°	18	18	17	16	16	20
90°	2	20	54	50	52	6
95°	80	95	98	98	95	89
105°	329	334	336	340	340	347
115°	612	621	618	616	612	605
125°	890	904	899	895	893	796
135°	1152	1169	1172	1170	1166	890
145°	1398	1409	1418	1420	1413	874
155°	1598	1603	1608	1615	1611	736
165°	1739	1738	1738	1748	1741	491
175°	1810	1805	1802	1813	1804	172
180°	1813	1813	1813	1813	1813	

TEST NUMBER: P1029352

CATALOG NUMBER: S122DIW-B290D1440UB2750-4F0-XX-W2A-F1_3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	459.9	459.9	459.9	459.9	459.9
2.5°	462.5	460.3	455.5	459.9	459.0
5°	459.9	458.1	453.2	456.8	455.9
7.5°	456.8	454.1	449.3	452.8	451.9
10°	451.9	448.8	443.5	447.1	445.7
12.5°	445.3	442.6	437.3	439.5	438.7
15°	437.8	435.1	429.4	431.1	428.9
17.5°	428.5	425.8	420.1	422.3	420.1
20°	418.3	415.7	409.5	410.8	409.0
22.5°	408.1	404.2	398.4	398.4	397.5
25°	396.2	392.7	385.1	386.0	385.1
27.5°	382.9	379.8	374.1	372.8	370.6
30°	369.7	366.1	359.5	358.2	356.4
32.5°	355.5	352.9	345.8	343.1	341.4
35°	341.8	337.4	330.3	327.7	325.5
37.5°	326.3	322.4	315.3	312.2	310.0
40°	310.4	306.9	299.8	295.8	294.1
42.5°	294.9	291.4	284.3	279.9	277.3
45°	278.1	275.0	268.4	263.5	261.8
47.5°	261.8	258.7	251.6	246.7	244.1
50°	244.5	242.3	236.1	229.9	227.7
52.5°	227.7	224.6	218.9	214.0	210.9
55°	210.5	207.8	202.5	197.2	195.0
57.5°	193.2	191.0	185.3	180.0	178.2
60°	176.0	174.2	168.0	163.2	161.8
62.5°	159.2	156.1	151.7	147.2	145.5
65°	141.9	139.3	134.9	130.9	128.7
67.5°	124.3	122.0	118.1	115.0	113.2
70°	107.9	106.1	102.1	99.1	97.3
72.5°	91.1	89.3	87.1	84.0	82.7
75°	74.3	73.4	71.2	68.5	69.4
77.5°	59.3	57.5	56.6	55.3	53.9
80°	44.2	43.8	42.9	41.6	40.7
82.5°	30.1	30.1	29.6	27.9	27.9
85°	18.1	17.7	17.2	15.9	15.5
87.5°	8.0	7.1	6.2	4.9	4.4
90°	1.5	19.9	53.5	50.5	52.0
92.5°	33.7	45.9	47.4	48.9	48.9
95°	79.5	94.8	97.9	97.9	94.8
97.5°	133.1	146.8	153.0	153.0	153.0
100°	194.3	206.5	211.1	211.1	209.6
102.5°	258.5	267.7	273.8	275.3	273.8
105°	328.9	333.5	336.5	339.6	339.6
107.5°	399.2	405.4	405.4	406.9	399.2
110°	466.5	475.7	475.7	475.7	471.1

TEST NUMBER: P1029352

CATALOG NUMBER: S122DIW-B290D1440UB2750-4F0-XX-W2A-F1_3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	540.0	549.2	547.6	543.0	540.0
115°	611.9	621.0	618.0	616.5	611.9
117.5°	683.8	696.0	688.4	683.8	679.2
120°	755.7	767.9	755.7	755.7	751.1
122.5°	821.4	836.7	829.1	824.5	821.4
125°	890.3	904.0	899.4	894.9	893.3
127.5°	957.6	974.4	968.3	962.2	957.6
130°	1020.3	1040.2	1037.1	1034.1	1027.9
132.5°	1090.7	1105.9	1107.5	1099.8	1095.2
135°	1151.8	1168.7	1171.7	1170.2	1165.6
137.5°	1219.1	1232.9	1236.0	1234.4	1228.3
140°	1278.8	1292.6	1300.2	1300.2	1294.1
142.5°	1340.0	1353.8	1358.3	1359.9	1353.8
145°	1398.1	1408.8	1418.0	1419.5	1413.4
147.5°	1450.1	1463.9	1470.0	1473.1	1467.0
150°	1503.7	1512.8	1519.0	1523.5	1519.0
152.5°	1551.1	1560.3	1567.9	1574.0	1567.9
155°	1598.5	1603.1	1607.7	1615.3	1610.7
157.5°	1639.8	1642.9	1645.9	1656.6	1649.0
160°	1676.5	1679.6	1681.1	1690.3	1684.2
162.5°	1710.2	1710.2	1711.7	1722.4	1714.8
165°	1739.2	1737.7	1737.7	1748.4	1740.8
167.5°	1765.2	1760.6	1760.6	1771.4	1763.7
170°	1785.1	1780.5	1779.0	1789.7	1780.5
172.5°	1798.9	1794.3	1792.8	1803.5	1794.3
175°	1809.6	1805.0	1801.9	1812.7	1803.5
177.5°	1815.7	1811.1	1808.1	1817.2	1808.1
180°	1812.7	1812.7	1812.7	1812.7	1812.7

(END OF REPORT)